



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : David W. Clarke et al.  
Serial No. : 09/921,293  
Filed : August 3, 2001  
Title : VORTEX FLOWMETER

Art Unit : 2857  
Examiner : Jeffrey R. West

Commissioner for Patents  
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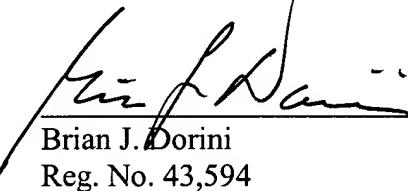
INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449. It should be noted that document AA (U.S. Publication No. 2003/0028334) is commonly-owned and related to the present application.

This statement is being filed after a first Office action on the merits, but before receipt of a final Office action or a Notice of Allowance. A check for \$180 in payment of the late submission fee of §1.17(p) is enclosed. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: February 23, 2004

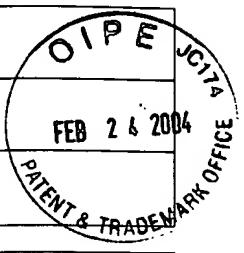
  
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Substitute Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 02052-100001	Application No. 09/921,293
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))				Applicant David W. Clarke et al.	
		Filing Date August 3, 2001		Group Art Unit 2857	


  
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<b>U.S. Patent Documents</b>							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	2003/0028334	02/06/2003	Ghaoud et al.			
	AB	3,709,034	01/09/1973	Herzl			
	AC	4,069,713	01/24/1978	Gassmann			
	AD	4,123,940	11/07/1978	Herzl et al.			
	AE	5,774,378	06/30/1998	Yang			
	AF	6,311,136	10/30/2001	Henry et al.			
	AG	6,505,519	01/14/2003	Henry et al.			
	AH	6,507,791	1/14/2003	Henry et al.			

<b>Foreign Patent Documents or Published Foreign Patent Applications</b>							
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation
							Yes No
	AI	1,551,220	8/22/1979	UK			

<b>Other Documents (include Author, Title, Date, and Place of Publication)</b>		
Examiner Initial	Desig. ID	Document
	AJ	Wood, Robert H., et al., "A Phase-Locked Loop for Driving Vibrating Tube Diameters," <u>Rev. Sci. Instrum.</u> , Vol. 60, No. 3, March 1989, pp. 493-494
	AK	Kutin, Jože, et al., "Phase-Locking Control of the Coriolis Meter's Resonance Frequency Based on Virtual Instrumentation," <u>Sensors and Actuators A: Physical</u> , 2003, pp. 86-93
	AL	Kline, S.J., and McClintock, F.A., "Describing Uncertainties in Single-Sample Experiments," <u>Mechanical Engineering</u> , January 1953, pp. 3-8
	AM	William F. Egan, "Chapter 9: Acquisition Aids," <u>Phase-Lock Basics</u> , John Wiley & Sons, Inc., 1998, pp. 209-210 and 222-227
	AN	"Test Uncertainty: ASME PTC 19.1-1998 Instruments and Apparatus" The American Society of Mechanical Engineers, An American National Standard, Performance Test Codes, pp. iii-ix and 1-112
	AO	Yang, Janice Ching-Yi, "Self-Validating Sensors," Doctoral Thesis, University of Oxford, 1993, 210 pages
	AP	Henry, M.P., and Clarke, D.W., "The Self-Validating Sensor: Rationale, Definitions and Examples," <u>Control Eng. Practice</u> , Vol. 1, No. 4, pp. 585-610, 1993
	AQ	Henry, M.P., et al., "A Self-Validating Digital Coriolis Mass-Flow Meter: An Overview," <u>Control Engineering Practice</u> , Vol. 8, 2000, pp. 487-506
	AR	Clarke, D.W., and Fraher, P.M.A., "Model-Based Validation of a DOx Sensor," <u>Control Eng. Practice</u> , Vol. 4, No. 9, pp. 1313-1320, 1996

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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		Filing Date August 3, 2001	

<b>Other Documents (include Author, Title, Date, and Place of Publication)</b>		
Examiner Initial	Desig. ID	Document
	BA	Clarke, D.W., and Ghaoud, T., "Validation of Vortex Flowmeters," <u>IEEE Computing and Control Engineering Journal</u> , October 2002, pp. 237-241
	BB	Clarke, D.W., "Designing Phase-Locked Loops for Instrumentation Applications," <u>Measurement</u> , Vol. 32, 2002, pp. 205-227
	BC	Ghaoud, T., and Clarke, D.W., "Modelling and Tracking a Vortex Flow-Meter Signal," <u>Flow Measurement and Instrumentation</u> , Vol. 13, 2002, pp. 103-117
	BD	Clarke, D.W., and Ghaoud, T., "A Dual Phase-Locked Loop for Vortex Flow Metering," <u>Flow Measurement and Instrumentation</u> , Vol. 14, Nos. 1-2, 2003, pp. 1-11
	BE	Yang, Janice C.-Y., and Clarke, David W., "A Self-Validating Thermocouple," <u>IEEE Transactions On Control Systems Technology</u> , Vol. 5, No. 2, March 1997, pp. 239-253
	BF	"Specification for Data Quality Metrics for Industrial Measurement and Control Systems," <u>British Standard BS 7986:2001</u> , July 15, 2001, pp. 1-23
	BG	"General Metrology — Part 3: Guide to the Expression of Uncertainty in Measurement (GUM)," Published Document PD 6461-3:1995, British Standards, January 15, 1995, pp. 1-105

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